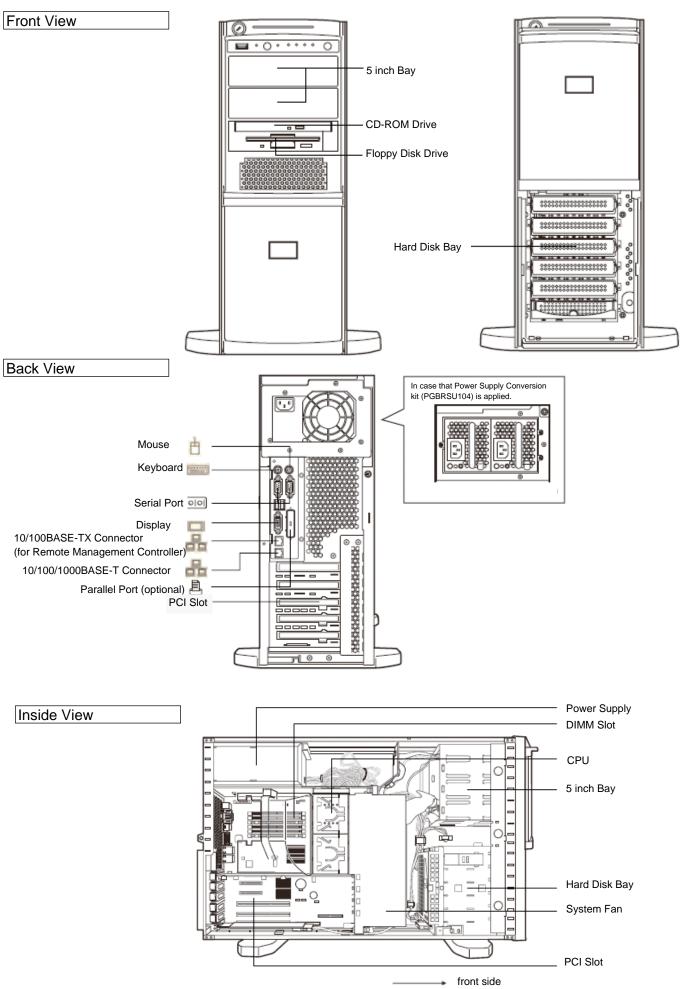
PRIMERGY[®]

System Configuration and Order-information Guide

TX200 S3

March 2008



Instruction

This document contains basic product and configuration information that will enable you to configure your system.

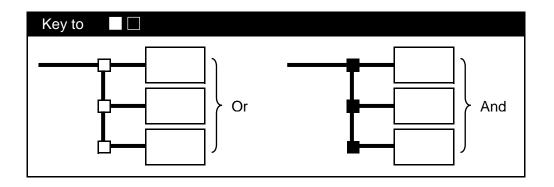
Only these tools will ensure a fast and proper configuration of your PRIMERGY server or your complete PRIMERGY Rack system.

You can configure your individual PRIMERGY servers in order to meet your specific requirements.

Please follow the lines. If there is a junction, you can choose which way or component you would like to take.

Go through the configurator by following the lines from the top to the bottom.

The color of the junction means as follows.



Data Sh	ieet							
	Туре	Dual-Processor Tower Server PGU12033A						
	(eon® 5110 (1.60GHz)	PGUT2033A						
CPU F	requencies	Quad-Core Intel® Xeon® X5355 (2.66GHz) *6 / E5310 (1.60GHz) *7 / Dual-Core Intel® Xeon® 5160 (3GHz) *8 / 5130 (2GHz) *9 / 5110 (1.60GHz)						
S	econd-Level-Cache	2x4MB(Quad-Core Intel® Xeon® X5355 (2.66GHz) / E5310 (1.60GHz)) / 4MB(Dual-Core Intel® Xeon® 5160 (3GHz) / 5130(2GHz) / 5110 (1.60GHz))						
N	Aulti-Processor	1 (max. 2)						
Front-Side-Bus								
	_	1333MHz(Q uad-Core Intel® Xeon® X5355 (2.66GHz) / Dual-Core Intel® Xeon® 5160 (3GHz) / 5130 (2GHz)) / 1066MHz(Q uad-Core Intel® Xeon® E5310 (1.60GHz) / Dual-Core Intel® Xeon® 5110 (1.60GHz))						
Chipset		Intel® 5000V						
Memory	Standard	1GB (512MB ECC DDR2 SDRAM Fully Buffered DIMM x 2, PC2 5300F) (SDDC(Single Device Data Correction) supported)						
	Maximum *1	16GB (ECC DDR2 SDRAM Fully Buffered DIMM, PC2 5300F)						
Graphics Cont		incl. Remote Management Controller, VRAM : 1.7MB						
Resolution *2		16777216 colors						
	800x600 dot	16777216 colors						
	1024x768 dot	65536 colors						
	1280x1024 dot	256 colors						
Internal Bays	Number of bays	6(8 by applying Internal HDD Unit Bay Conversion kit (PG-BC103))(hot plug)						
3.5 inch	Available HDD *3	73.4GB (PG-HDB75A) 15krpm, SAS						
HDD		146.8GB (PG-HDB45A) 15krpm, SAS						
(SAS)		300.0GB (PG-HDB35A) 15krpm, SAS						
(6/(6)	Maximum *3	1.8TB (2.4TB by applying Internal HDD Unit Bay Conversion kit (PG-BC103)) *10						
Internal Bays 5		3 (2 free bays) (1 (0 free bay) by applying Internal HDD Unit Bay Conversion kit (PG-BC103))						
CD-ROM	Silicit	standard (Max. 24 ATAPI)						
PCI Slots	DOI 5							
PCI SIOIS	PCI Express (x8) [x8]							
	PCI Express (x4) [x8]							
	PCI-X (64bit/100MHz) [3.3V] *4	2 (1 × Full Size)						
	PCI (32bit/33MHz) [5.0V]	1 (1 x Full Size)						
	PCI-X (64bit/100MHz) [3.3V]	1 (SAS Controller occupies one slot.)						
RAID Controlle		standard (SAS Controller)						
SAS Controller	f	SAS x 8ports (Installed as standard) (with RAID1 function)						
Internal FDD		3.5inch (1.44MB/720KB)						
	oller (onboard)	1 port (1000BASE-T/100BASE-TX/10BASE-T)						
Interfaces		Display (Analog RGB), Serial Port x 2 (D-SUB 9pins), Parallel Port (optional, D-SUB 25pins) Keyboard (PS/2type Mini DIN 6pins), Mouse (PS/2type Mini DIN 6pins) USB x 5 (ver. 2.0) (Internal : x 2,External : x 3						
Sonvor Monor	ement Software	ServerView (Standard)						
Remote Service		standard (onboard, Remote Management Controller)						
Temple Servic		1 port (100BASE-TX/10BASE-T)						
Power supply	connector Voltage	AC 100-127V (50/60Hz) / AC 200-240V (50/60Hz) x 1						
1 ower supply	* Sinage	(AC 100-127V (50/60Hz) / AC 200-240V (50/60Hz) / AC 200-240V (50/60Hz) / AC 100-127V (50/60Hz) / AC 200-240V (50/60Hz) / AC 200						
	Power consumption	(AC 100-127V (50/00H2) / AC 200-240V (50/0H2) X 2 when Power Suppry Conversion kit (PGBRS0104) is applied.) 575W / 2070kJ/h (max.)						
	Redundant power supply	optional (hot plug when Power Supply Conversion kit (PGBRSU104) is applied.)						
Redundant Fa	1 11 7	optional (hot plug when Power Supply Conversion kit (PGBRSU104) is applied.)						
Dimensions (m		I ower : 174 (286 incl. protruding parts)(W) x 755 (D) x 474 (H) Bockmount (where Pack Conversion it is tor X700 S2 (JC P4CK20)(CB4CK20) is paplied)						
		Rackmount (when Rack Conversion kit for TX200 S3 (PG-R1CK20/PGBR1CK20) is applied.)						
Woight		: 483 (W) x 700 (750 incl. protruding parts) (D) x 177 (4U) (H)						
Weight	O an differen	Tower : 38kg (max.) / Rackmount: 40kg (max.)						
Environmental Conditions		Temperature10-35°C / Humidity 20-80% (non condensing)						
OS Support *5		Windows Server® 2003 R2, Standard Edition / Windows Server® 2003 R2, Standard Edition (SP2 *11)						
		Windows Server® 2003 R2, Enterprise Edition / Windows Server® 2003 R2, Enterprise Edition (SP2 *11)						
		Windows Server® 2003, Standard Edition (SP1/SP2 *11) / Windows Server® 2003, Enterprise Edition (SP1/SP2 *11) Windows Server® 2003 R2, Standard x64 Edition / Windows Server® 2003 R2, Standard x64 Edition (SP2 *11)						
		Windows Server® 2003 R2, Enterprise x64 Edition / Windows Server® 2003 R2, Enterprise x64 Edition (SP2 *11)						
		Windows Server® 2003, Standard x64 Edition / Windows Server® 2003, Standard x64 Edition (SP2 *11)						
		Windows Server® 2003, Enterprise x64 Edition / Windows Server® 2003, Enterprise x64 Edition (SP2 *11)						
		Windows® 2000 Server (SP4) / Windows® 2000 Advanced Server (SP4)						
		Red Hat Enterprise Linux AS (v.3 for x86) *12 *13 / Red Hat Enterprise Linux ES (v.3 for x86) *12 *13						
		Red Hat Enterprise Linux AS (v.4 for x86) *12 / Red Hat Enterprise Linux ES (v.4 for x86) *12						
1		Red Hat Enterprise Linux AS (v.4 for EM64T) *12 / Red Hat Enterprise Linux ES (v.4 for EM64T) *12						
Attached	Ston dord)	Red Hat Enterprise Linux 5 (for x86) *12 *14 / Red Hat Enterprise Linux 5 (for Intel64) *12 *14						
Attached tool (Stanualu)	ServerStart (Setup Support tool) *15						

*1. Available memory capacity will be changed by the type of OS. Please find more details in Notes[Memory OS Compatibility List].

*2. Resolution is determined by functions of the display monitor and OS.

*3. HDD capacity is calculated according to the formulas 1GB=1000 ° byte and 1TB=1000° byte. *4. Frequency will be changed by the spec of PCI card and number of cards mounted.

*5. Drivers for Linux are not attached. Please download and use drivers of the following URL

http://www.fujitsu.com/global/services/computing/server/ia/driver/ *6. CPU Conversion kit: Xeon 5110(1.60GHz/4MB) -> Xeon X5355(2.66GHz/2x4MB) (PGBFU405) is available for upgrading to Quad-Core Intel® Xeon® X5355 2.66GHz.

T. CPU Conversion kit: Xeon 5110(1.60GHz/4MB) -> Xeon E5310(1.60GHz/2x4MB) (PGBFU403) is available for upgrading to Quad-Core Intel® Xeon® E5310 1.60GHz.

*8. CPU Conversion kit: Xeon 5110(1.60GHz/4MB) -> Xeon 5160(3GHz/4MB) (PGBFU30T2) is available for upgrading to Dual-Core Intel® Xeon® 5160 3GHz.

*9. CPU Conversion kit: Xeon 5110(1.60GHz/4MB) -> Xeon 5130(2GHz/4MB) (PGBFU30S2) is available for upgrading to Dual-Core Intel® Xeon® 5130 2GHz.

*10. In case that SAS Controller installed as standard is used for RAID configuration, only 2 HDDs of same capacity and same rpm can be connected.

*11. There are some notes for Windows 2003 SP2. Please refer to Notes of Support Matrix.

http://www.fujitsu.com/downloads/PRMRGY/support-matrix.pdf

*12. Regarding supported kernel versions of Linux, please refer to the following list.

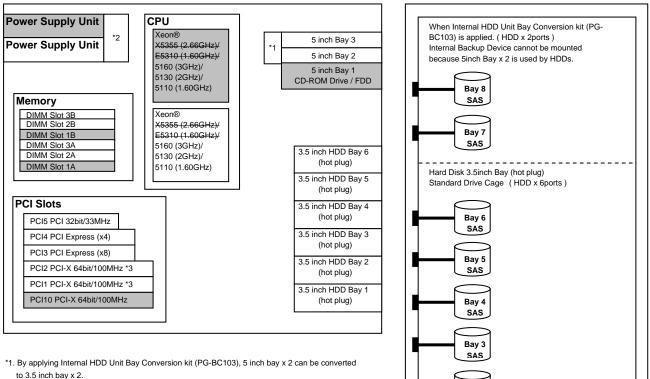
//www.fujitsu.com/downloads/PRMRGY/linux-os-kernel-compatibility-list.pd httr

*13. Quad-Core Intel® Xeon® X5355 (2.66GHz) / E5310 (1.60GHz) are not included. *14. Total number of cores of CPU(s) should be four or more for using VM (Virtual Machine) function.

*15. ServerStart doesn't support Linux.

*. Noise level is 37dB. (Noise level is 47dB when Power Supply Conversion kit (PGBRSU104) is applied.)

Configuration Diagram



Bay 2

SAS

Bay 1

SAS

When Internal HDD Unit Bay Conversion kit (PG-BC103) is applied, Internal Backup Device cannot be mounted on 5inch Bay.

*2. By applying Power Supply Conversion kit (PGBRSU104), non-redundant structure (Power Supply x1, FAN x2) can be converted to redundant structure (Power Supply x2, FAN x6).

*3. Frequency will be changed by the spec of PCI card and number of cards mounted.

*Components installed as standard configuration marked in grey.

Mountable I/O Options

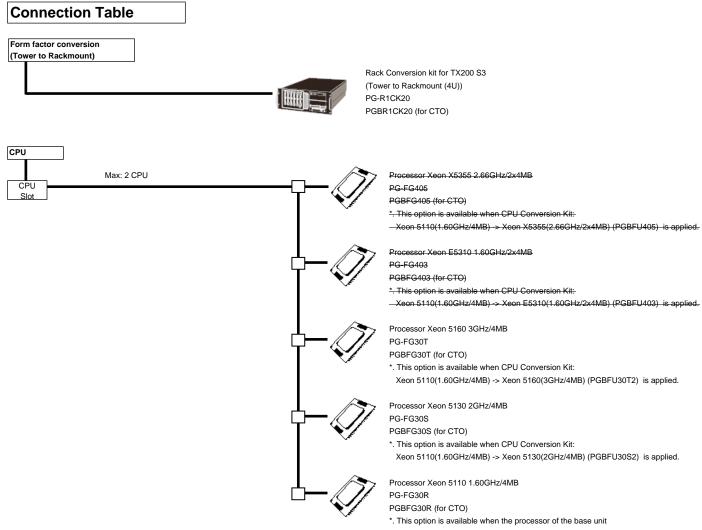
	Mountable Cards		Bus	PCI Slot									
				10	1	2	3	4	5				
				PCI-X		PCI Express		PCI	Max No.				
Mount Priority				64bit/ 100MHz	64 100M	bit/ IHz *1	x8 lane	x4 Iane	32bit/ 33MHz	of Mount			Remarks
				Full Height									
				3.3V			x8 socket		5.0V				
High	SAS Controller (8ports)	-	PCI-X/64bit	#	-	-	-	-	-		1		Standard, Internal array
↑ ngii	SAS RAID Ctrl	PG-140F / PGB140F	PCI-X/64bit	-	[1]	-	-	-	-	1	1		Internal array
	SAS RAID Ctrl	PG-140G / PGB140G	PCI-X/64bit	-	[1]	-	-	-	-	1	ľ		Internal array
	Eth. Ctrl 1000-BASE-T Cu	PG-1892 / PGB1892	PCI-X/64bit	-	[1]	[2]	-	-	[3]	2			
	Eth. Ctrl 1x1Gbit PCI 1000-BASE-T	PG-1853 / PGB1853	PCI/32bit	-	[1]	[2]	-	-	[3]	2	2	2	* No AFT/ALB Support
	Eth. Ctrl 1000-BASE-SX Fibre LC	PG-1882	PCI-X/64bit	-	[1]	[2]	-	-	[3]	2		3	
	Eth. Ctrl 2x1Gbit PCI-X 1000-BASE-T	PG-1863	PCI-X/64bit	-	[1]	[2]	-	-	[3]	2	1		
+	RAID Ctrl 2-Channel 128MB w/ BBU	PG-142E3 / PGB142E3	PCI/64bit	-	[2]	[1]	-	-	[3]		2		External array
Low	SCSI Ctrl U160	PG-1281 / PGB1281	PCI/64bit	-	[2]	[1]	-	-	[3]		2		Internal/External SCSI Controller
High	Fibre Channel Controller	PG-FC202 / PGBFC202	PCI Express (x4)	-	-	-	[1]	[2]	-		2		PCI Express Card
↑	Eth. Ctrl 2x1Gbit PCI-E 1000-BASE-T	PG-2861 / PGB2861	PCI Express (x4)	-	-	-	[1]	[2]	-		2		PCI Express Card
+	Eth. Ctrl 1x1Gbit PCI-E 1000-BASE-T	PG-289 / PGB289	PCI Express (x1)	-	-	-	[1]	[2]	-		2		PCI Express Card
Low	Eth. Ctrl 1x1Gbit PCI-E 1000BASE-SX	PG-288	PCI Express (x4)	-	-	-	[1]	[2]	-		2		PCI Express Card

* [n] : Installation Priority

* # : standard

* - : cannot be installed

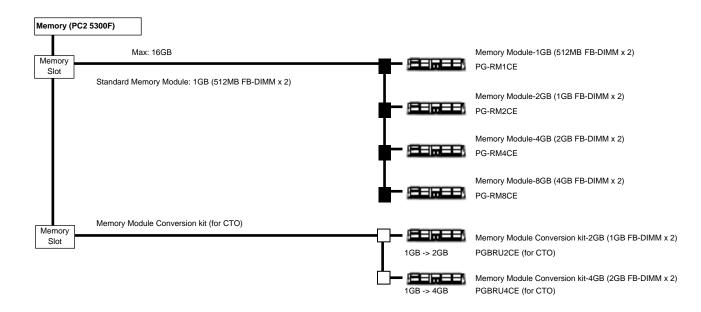
*1.Frequency will be changed by the spec of PCI card and number of cards mounted.



is Processor Xeon 5110(1.60GHz/4MB).

*CPU Conversion Kit (available only as a Configure To Order (CTO) option; no separate shipment is possible)

Туре	Product ID					
CPU Conversion Kit:		Dual-Core Intel® Xeon® 5110(1.60GHz/4MB) -> Quad-Core Intel® Xeon® X5355(2.66GHz/2x4MB)				
Xeon 5110(1.60GHz/4MB)	PGREL1405	Convert the CPU installed as standard in the base unit to the other.				
-> Xeon X5355(2.66GHz/2x4MB)	1 001 0400	(Note: This option can be ordered only as coupled with the base unit				
(for CTO)		A separate shipment is not possible.)				
CPU Conversion Kit:		Dual-Core Intel® Xeon® 5110(1.60GHz/4MB) -> Quad-Core Intel® Xeon® E5310(1.60GHz/2x4MB)				
Xeon 5110(1.60GHz/4MB)	PGREU403	Convert the CPU installed as standard in the base unit to the other.				
-> Xeon E5310(1.60GHz/2x4MB)	1 001 0400	(Note: This option can be ordered only as coupled with the base unit				
(for CTO)		A separate shipment is not possible.)				
CPU Conversion Kit:		Dual-Core Intel® Xeon® 5110(1.60GHz/4MB) -> Dual-Core Intel® Xeon 5160(3GHz/4MB)				
Xeon 5110(1.60GHz/4MB)	PGBFU30T2	Convert the CPU installed as standard in the base unit to the other.				
-> Xeon 5160(3GHz/4MB)		(Note: This option can be ordered only as coupled with the base unit.				
(for CTO)		A separate shipment is not possible.)				
CPU Conversion Kit:		Dual-Core Intel® Xeon® 5110(1.60GHz/4MB) -> Dual-Core Intel® Xeon® Xeon 5130(2GHz/4MB)				
Xeon 5110(1.60GHz/4MB)	PGBFU30S2	Convert the CPU installed as standard in the base unit to the other.				
-> Xeon 5130(2GHz/4MB)		(Note: This option can be ordered only as coupled with the base unit.				
(for CTO)		A separate shipment is not possible.)				



* Notes on installing memory

- 1. Memory is installed by pairs of FB-DIMMs of the same capacity. Installation of one FB-DIMM or a mixed -capacity pair is impossible.
- 2. The memory capacities of the slots should be in ascending order in the following sequence:
- DIMM slots 1A,1B (Bank 1) -> DIMM slots 2A,2B (Bank 2) -> DIMM slots 3A,3B (Bank 3)

(Available Memory Area)

	Mounted Memory	Available Memory Area
Windows® 2000 Server (SP4)	~3.0GB	Same as the size of mounted memory
Windows@ 2000 Server (SF4)	4.0GB	Size of Mounted Memory minus "1.0GB"
Windows® 2000 Advanced	~7.0GB	Same as the size of mounted memory
Server (SP4)	8.0GB	Size of Mounted Memory minus "1.0GB"
Others	~16.0GB	Same as the size of mounted memory

*. Spare Memory function

In the case of using Spare Memory function, same DIMMs of two or more banks are required to be installed. Available memory capacity is "installed memory" minus "capacity of Spare Memory (1 Bank)".

Connecting Internal HDD and Internal Backup Devices

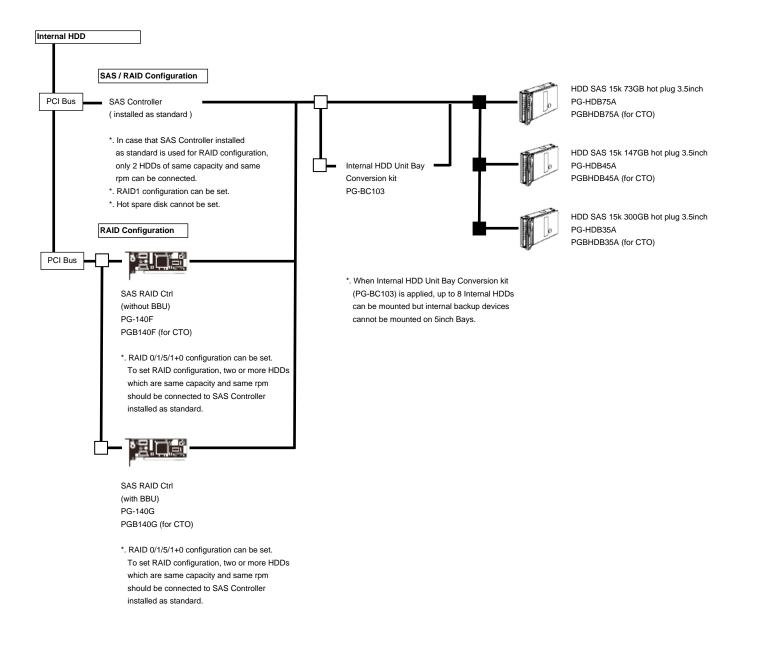
If you would like to order internal HDDs and internal backup devices, please order optional cards/cables according to the following table.

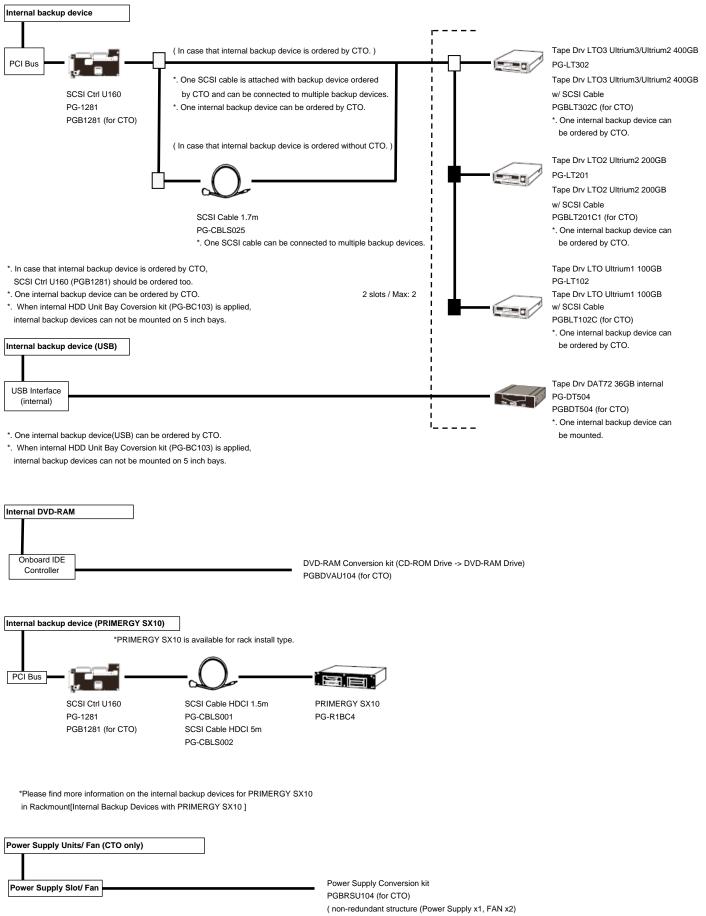
	Type of	HDD connection	1	Internal Backup Devices PRIMERGY TX200 S3			
Connection	Drive Cage	Interface		USB ("1) Connection	SCSI Wide ("2) Connection		
SAS /	Standard Drive Cage (6bays)	SAS Controller (standard) *. In case that SAS Controller installed as standard is used for RAID configuration, only 2 HDDs of same capacity and same rpm can be connected.	$ \square $	Onboard USB (internal port)	SCSI Card (PG-1281/PGB1281) SCSI Cable (PG-CBLS025) ("3)		
RAID	When Internal HDD Unit Bay Conversion kit (PG-BC103) is applied. (+2bays)	SAS Controller (standard) *. Only SAS Configuration is supported.	\Box	- (not connect)	(not connect)		
RAID	Standard Drive Cage (6bays)	SAS RAID Ctrl (PG-140F/PG-140G) (SAS Controller (standard))		Onboard USB (internal port)	SCSI Card (PG-1281/PGB1281) SCSI Cable (PG-CBLS025) ("3)		
RAID	When Internal HDD Unit Bay Conversion kit (PG-BC103) is applied. (+2bays)	SAS RAID Ctrl (PG-140F/PG-140G) (SAS Controller (standard))	$ \Box \rangle$	- (not connect)	(not connect)		

("1) USB Backup Devices: PG-DT504

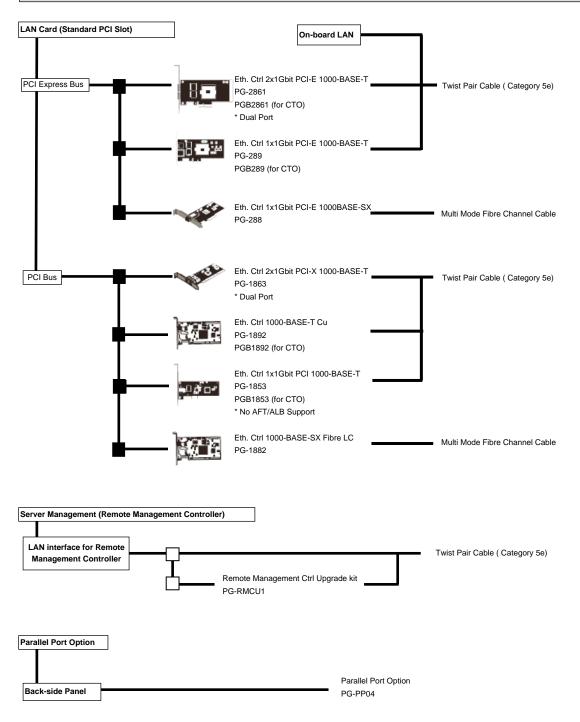
("2) SCSI Wide Backup Devices: PG-LT302/PG-LT201/PGBLT201C1/PG-LT102

("3) If you order internal backup devices by CTO, SCSI cable is attached with backup devices.





-> redundant structure (Power Supply x2, FAN x6))



Specifications are subject to change without notice. For the latest detailed information, contact your local representative.

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